K. J. Somaiya Institute of Technology, Sion, Mumbai-22
(Autonomous College Affiliated to University of Mumbai)

FEB | MARCH - 2024

(B.Tech) Program: Honours Scheme II
Examination: LY   Semester: VII
Course Code:HCSC701 and   Course Name: Security Information Management

Date of Exam: 23|02|2024   Duration: 2.5 Hours   Max. Marks: 60

Instructions:
(1)All questions are compulsory.
(2)Draw neat diagrams wherever applicable.
(3)Assume suitable data, if necessary.

		Max. Marks	CO	BT level
Q 1	**Solve any six questions out of eight:**	**12**		
i)	Illustrate the Integrity term in Basics of Information Security	2	CO1	U
ii)	Summarize issues related to information Security.	2	CO2	U
iii)	Differentiate between threat, vulnerability & risk.	2	CO3	U
iv)	Explain the Concepts of Authentication, Authorization.	2	CO4	U
v)	Describe the benefits of security logging and monitoring.	2	CO4	U
vi)	Explain Redundancy and Backup.	2	CO5	U
vii)	Differentiate Availability and High availability.	2	CO5	U
viii)	Explain SQL injection in web application service.	2	CO6	U
Q.2	**Solve any four questions out of six.**	16		
i)	Explain basic principles of confidentiality & integrity.	4	CO1	U
ii)	Illustrate an Overview of Certifiable Standards in (How, What, When, Who).term.	4	CO2	U
iii)	Describe risk assessment. Explain steps in executing risk assessment.	4	CO3	U
iv)	Summarize the Role based and Rule-based Access Control Models:	4	CO4	U

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v)	Explain the Detection, Response, Mitigation term in Incident Management.	4	CO5	U
vi)	Explain Open Web Application Security Project (OWASP) and identify the common issues in Web Apps.	4	CO6	Ap
Q.3	**Solve any two questions out of three.**	**16**		
i)	Explain and Compare the IDS and IPS with various parameters.	8	CO4	Ap
ii)	Describe the IT ACT 2000, IT ACT 2008.	8	CO1	U
iii)	Explain Availability, Mean Time Between Failure (MTBF), Mean Time to Repair (MTTR), and Calculate the Availability for a product has MTBF of 200hrs and MTTR of 10 hrs.	8	CO5	Ap
Q.4	**Solve any two questions out of three.**	**16**		
i)	Explain COBIT & OWASP in detail.	8	CO2	U
ii)	Apply the concept of vulnerability to any real time application. Differentiate between threat, vulnerability & risk.	8	CO3	Ap
iii)	Describe various Audits in Windows Environment.	8	CO6	U

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